

Amendments to the Specification

Please replace paragraph [0018] with the following paragraph:

In an alternate embodiment of the present invention, each beam is sampled multiple times in each door scan frame. The sampling is accomplished by modulating the energy transmitted with a continuous stream of square waves 21 at a specified frequency as illustrated in Figure 2. Multiple sampling and impulse rejections are ~~is~~ performed as described for the simplest embodiment above. However, if no sample for a particular beam results in a determination that the energy received originated external to the detection system, the resulting energy samples acquired for that beam are compared to determine if the detected energy represents the pickup of external energy or actual scanning energy being produced by the detection system.

Please replace paragraph [0020] with the following paragraph:

In yet another alternative embodiment of the present invention, each beam is sampled multiple times in each door scan frame. The sampling is accomplished by modulating the energy transmitted with a specific binary code 31 as illustrated in Figure 3. As each sample is being acquired, and while the amplitude of the sample is being measured, the binary code expected to be modulating the received signal is verified. Multiple sampling and impulse rejections are ~~rejection is~~ performed, just as described above. However, if no sample for a particular beam results in a "no detect", the resulting energy samples for that beam, are compared to determine if the detected energy represents the pickup of external energy or actual scanning energy being produced by the detection system. If the amplitude of the received energy is not consistent, from sample to sample, or the binary modulation code is not verified, the determination is made that the received energy originated external to the safety system and is rejected. If the amplitude of the energy is consistent, from sample to sample, or the binary modulation code is verified, the determination is made that the energy was actually scanning energy produced by the detection system.

Please replace the Abstract with the following paragraph:

A method for detecting interference energy in a sliding door safety system includes ~~comprising~~ the steps of disposing at least one emitter along a first vertical surface, disposing at least one receiver corresponding to the at least one emitter along a second vertical surface, activating the at least one receiver, activating the at least one emitter to emit an energy beam that includes ~~comprising~~ a modulated square wave of a predetermined frequency, sampling an energy intensity received by the activated at least one receiver a predetermined number of times recording each time a received energy intensity to form a plurality of recorded energy intensities, selecting the lowest magnitude one of the plurality of recorded energy intensities to form a lowest recorded energy intensity, comparing the lowest recorded energy intensity to a threshold value and determining a source of the energy intensity to be external when the lowest recorded energy intensity is less than the threshold value.